Service Manual

Radio

RF-1650J

(Black)

FM-MW-SW 3 Band Portable Receiver



This is the Service Manual for the following areas.

- Z...For all European areas except United Kingdom, F.R. Germany, France, Italy and Finland.
- I...For Italy and Finland.
- X...For Asia, Latin America, Middle East and Africa areas.

SPECIFICATIONS

General:

Power Requirement:

AC; Z I 220 V, 50 Hz

X 110~127/220~240 V.

50/60 Hz

Battery; ZII 6 V (Four "C" Size

Flash light Batteries) (Panasonic UM-2 or

equivalent)

X 6 V (Four "C" Size

Flashlight Batteries) (National UM-2 or

equivalent)

Power Consumption:

Power Output:

4 W (AC only)

Z I 1.2 W MPO

1 W RMS (max.)

X 1.4 W....MPO

1.2 W RMS (max.)

Speaker:

10 cm PM Dynamic

Speaker (3Ω)

Output: Earphone/E

Dimensions:

Earphone/External Speaker; $3\sim8\Omega/\varnothing3.5$ 266 mm (W)×143 mm (H)×81 mm (D)

Weight:

960 g without batteries

Radio Section:

Radio Frequency

Range:

Z II FM; 87.5~108 MHz

MW; 520~1610 kHz (577~186 m)

SW; 5.9~18 MHz

(50.8~16.7 m)

FM; 88~108 MHz

MW; 530~1605 kHz

(566~187 m)

SW; 5.9~18 MHz

(50.8~16.7 m)

Intermediate Frequency:

FM; 10.7 MHz

X

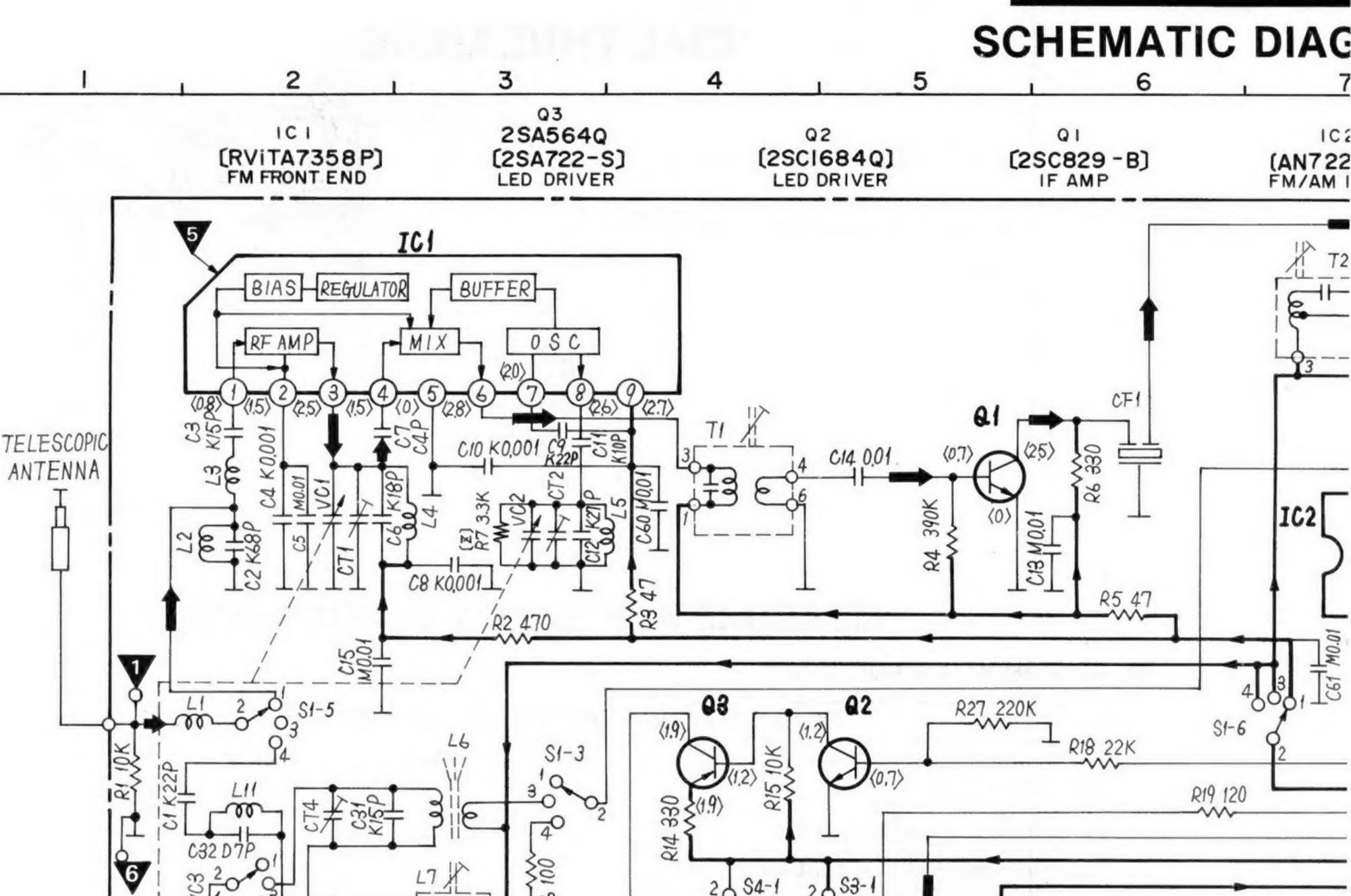
Sensitivity:

AM (MW/SW); 455 kHz FM; 2.8µV/50 mW output

(-3 dB Limit Sens)

MW; $89\mu V/m/50$ mW output SW; $7\mu V/50$ mW output

Design and specifications are subject to change without notice.



\$4-1

R12 330

S1-4

03

537

930

R13

50

\$

\$

D3,4,5

(LN222RP)

TUNING/TONE/

LOUDNESS IND

03

C38,M0.047

30

\$4-2

50K(D)

Notes: 1. S1-1~S1-6: Band switch in "FM" position.

朱哈

(1...FM, 3...MW, 4...SW)

2. S2-1, S2-2: Radio ON/OFF switch in "ON" position.

S3-1, S3-2: LOUDNESS ON/OFF switch in "OFF" position.

4. S4-1, S4-2: TONE HIGH/LOW switch in "HIGH" position.

S5: AC/DC IN select switch in "AC IN" position.

S6 X: Voltage Selector

D

E

VR1: Volume control.

The mark (▼) shows test point e.g. ▼= test point 1.

9. DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.

>...FM position, ()...AM position

Maximum output (radio)290 mA

Components identified by A mark have specia characteristics important for safety.

When replacing any of these components, use manufacturer's specified parts.

12. Described in schematic diagram are two types the supply parts number and production parts i transistors and dioes.

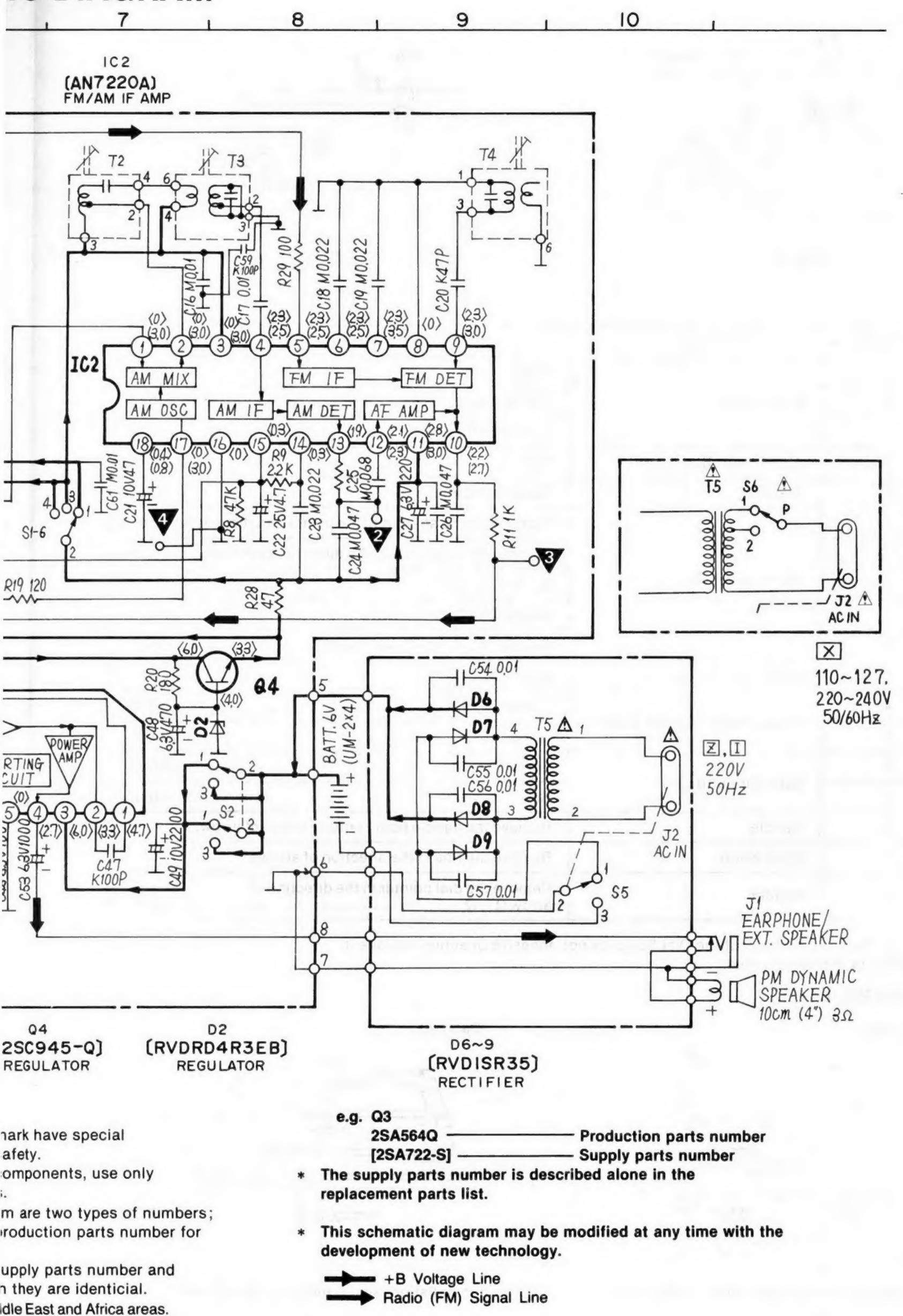
One type number is uded for supply parts numl production parts number which they are identic X...For Asia, Latain America, Middle East and Africa Z...For all European areas except United Kingdom,

France, Italy and Finland. II...For Italy and Finland.

SUPPLEMENTAL OF THE WAR DISTORDED IN THE PROPERTY OF THE PARTY OF THE

IC DIAGRAM

t United Kingdom, F.R. Germany,



Service Manua

FM-MW-SW 3 Band Portable Receiver

RF-1630J



This is the Service Manual for the following areas.

- Z ... For all European areas except United Kingdom, F.R. Germany, France, Italy and Finland
- X ... For Asia, Latin America, Middle East and Africa areas
- .For Australia

■ SPECIFICATIONS

General:

Speaker:

Power Requirement: AC; [Z]...220 V, 50 Hz

X...110~127/220~240 V, 50/60 Hz

L...240 V. 50 Hz

Battery; [Z]...6 V (Four "C" Size Flashlight

Batteries)

(Panasonic UM-2 or equivalent)

XL...6 V (Four "C" Size Flashlight

Batteries)

(National UM-2 or equivalent)

Power Consumption: 4 W (AC only)

2...1 W...RMS (max.) Power Output:

XL...1.2 W...MPO

1 W...RM\$ (max.)

8 cm PM Dynamic Speaker (3Ω)

Output: Earphone/External Speaker; 3~8Ω/Ø3.5

246 mm (W)×131 mm (H)×79 mm (D) Dimensions:

Weight: 900 g without batteries Radio Section:

Radio Frequency

Range:

Z...FM; 87.5~108 MHz

MW; 520~1610 kHz (577~186 m) SW; 5.9~18 MHz (50.8~16.7 m)

X L...FM; 88~108 MHz

MW; 530~1605 kHz (566~187 m) SW; 5.9~18 MHz (50.8~16.7 m)

Intermediate

Frequency:

Sensitivity:

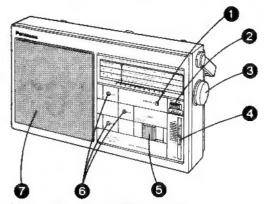
FM: 10.7 MHz

AM (MW/SW); 455 kHz FM; 3.2 µV/50 mW output

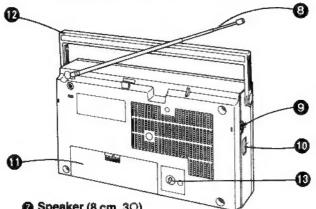
(-3 dB Limit Sens) MW; 80 µV/m/50 mW output SW: 13 µV/50 mW output

Design and specifications are subject to change without notice.

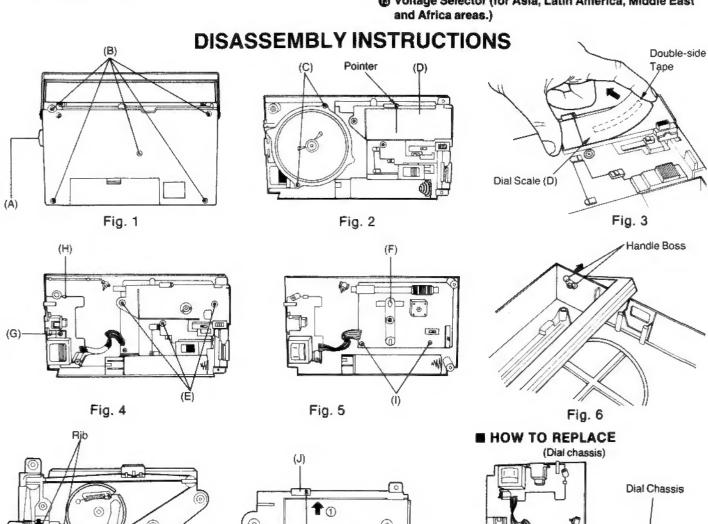
LOCATION OF CONTROLS AND COMPONENTS



- Radio On Indicator (RADIO ON)
- Radio Switch (RADIO)
- Tuning Control (TUNING)
- Volume Control (VOL)
- Band Selector (BAND)
- 6 Band Indicators



- Speaker (8 cm, 3Ω)
- Telescopic Antenna
- Earphone/External Speaker Jack (IMP 3-8Ω € 록) Ø3.5
- AC Socket (AC IN ~)
- Battery Compartment
- **@** Handle
- Voltage Selector (for Asia, Latin America, Middle East and Africa areas.)



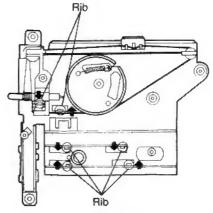


Fig. 7

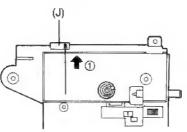
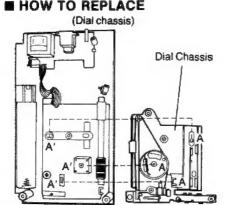


Fig. 8



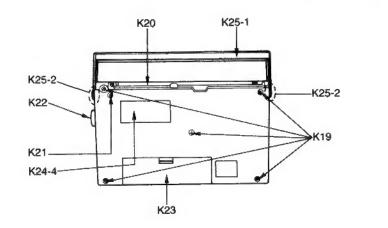
During installation, simultaneously fit in A and A.

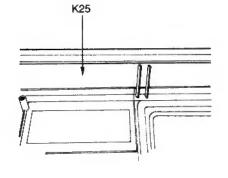
Fig. 9

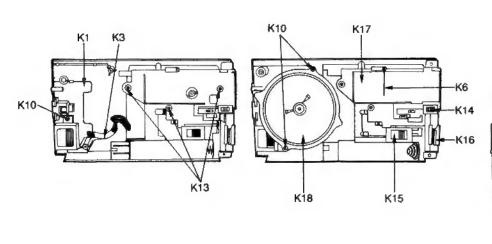
| Ref. No. | Shown in Fig. —. | To remove —. | Remove —. |
|----------|------------------|----------------------------|---|
| 1 | 1 | E I Calling | Knob(A)×1 |
| 2 | 1 | Front Cabinet | Screw (3×16)mm(B)×5 |
| 3 | 2 | Speaker | Screw (3×12)mm(C)×2 |
| 4 | 2 | | Turn the tuning shaft until the pointer reaches the left end. |
| 5 | 2, 3 | Dial Chassis (*1) | Remove the dial scale in the direction of the arrow (D)×1 |
| 6 | 4 | | Screw (3×30) mm(E)×3 |
| 7 | 5 | Band Switch Lever (+2) | Lever(F)×1 |
| 8 | 4 | | Screw (3×12)mm(G)×1 |
| 9 | 4 | Power Supply Circuit Board | Rib(H)×1 |
| 10 | 5 | Main Circuit Board | Screw (3×12) mm(I)×2 |
| 11 | 6 | Handle | Remove the handle both in the direction of arrow. |
| 12 | 7 | Band Knob | Remove the ribs in the direction of arrows. |
| 13 | 8 | Pointer | Pull out the dial pointer in the direction of arrow ①(J)×1 |

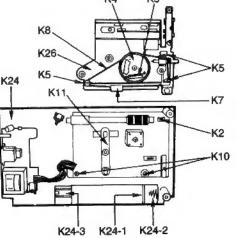
- *1. If the double-sided tape on the back of the Dial Scale its not adhesive qualities, replace it.
 *2. Note that they may be tightly engaged.

CABINET PARTS LOCATION

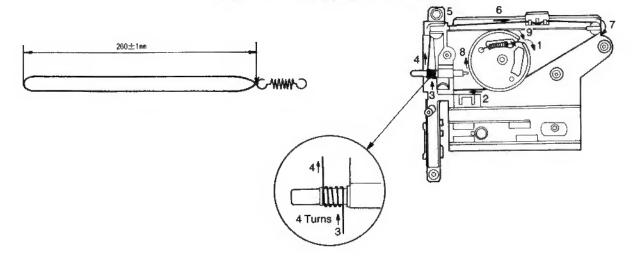








DIAL THREADING



MEASUREMENTS AND ADJUSTMENTS

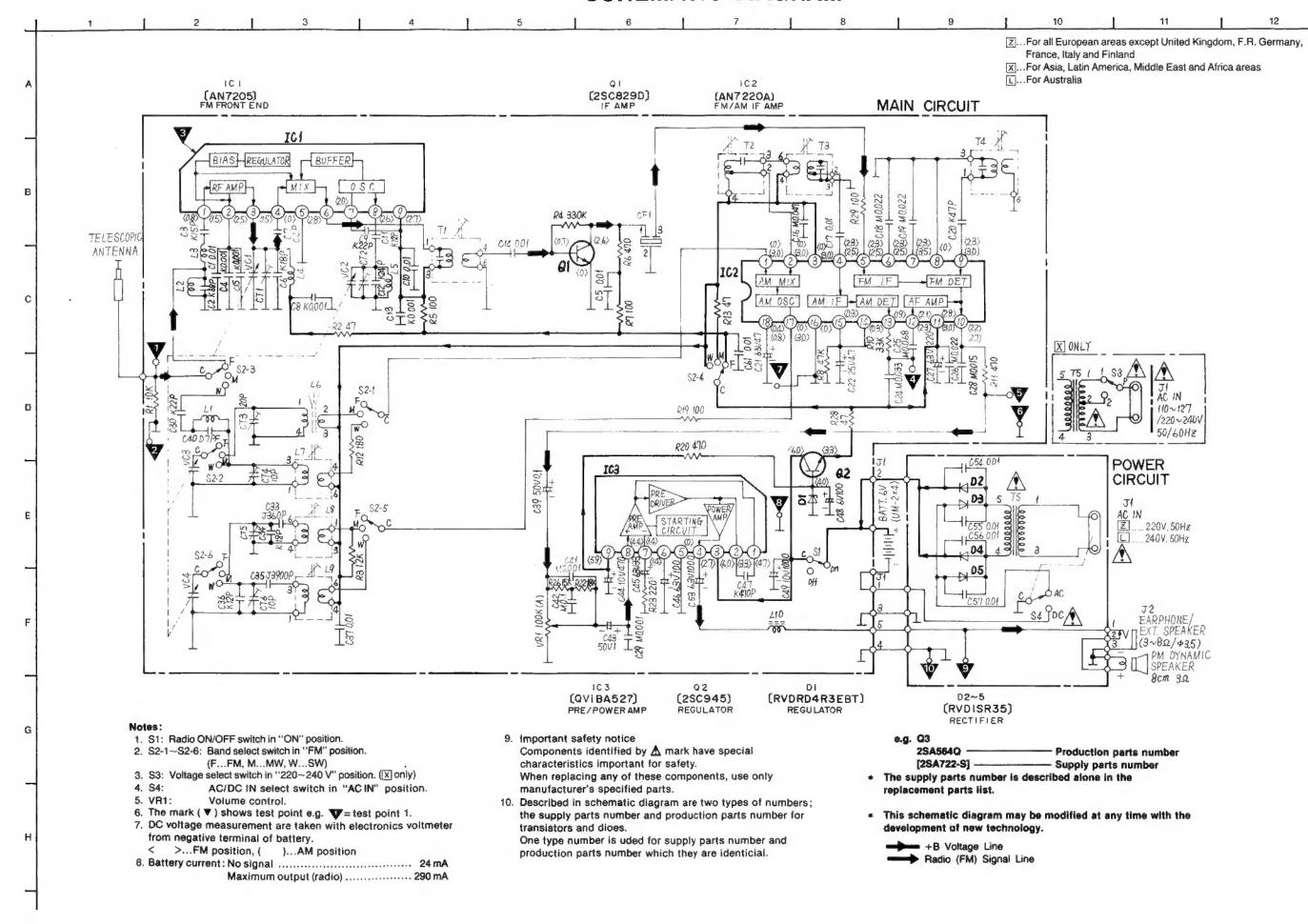
M ALIGNMENT INSTRUCTION

| | RI | EAD CAREF | JLLY BEFORE | ATTEMPTING / | ALIGNMENT | |
|------------------|--|----------------------------------|---|--|---|---|
| 2. Set 3. Set | volume control to maximul loudness switch to OFF. tone switch to OFF. band switch to MW, SW o | | 6 | Set radio (power) so Set power source vo Output of signal ger necessary to obtain | oltage to 6 V DC. nerator should be no h | igher than |
| LW, I | WW and SW ALIGN | MENT | | | | |
| BAND | SIGNAL GENEF SWEEP GENE | | RADIO DIAL | INDICATOR (ELECTRONICS VOLTMETER | ADJUSTMENT | REMARKS |
| | CONNECTIONS | FREQUENCY | SETTING | or SCOPE) | | |
| | | | AM-IF ALIC | SNMENT | | |
| MW | Fashion loop of several turns of wire and radiate signal into loop of receiver. | 455 kHz 30% Mod. at 400 Hz | Point of non- interference. (on/ about 600 kHz) | Output meter across voice coil. | T2 (AM 1st IFT) T3 (AM 2nd IFT) | Adjust for maximum output. |
| | | | MW-RF ALI | GNMENT | | |
| MW | W. | 511 kHz | Tuning capacitor fully closed. | н | L8 (MW OSC Coil) | Adjust for maximum output. |
| MW | N | 1650 kHz | Tuning capacitor fully open. | " | CT5 (MW OSC Trimmer) | н |
| MW | n | 550 kHz | Tune to signal. | и | (*1) L6 (MW ANT Coil) | Adjust for maximum output. Adjust L6 by moving coil bobbin along ferrite core. |
| MW | н | 1,500 kHz | 91 | tt | CT3 (MW ANT Trimmer) | Adjust for maximum output. Repeat steps (2)~(5). |
| (+1)C | ement antenna bobbin with | h wax after compl | | | | |
| | | | SW-RF ALI | GNMENT | | |
| sw | и | 5.75 MHz | Tuning capacitor fully closed. | н | L9 (SW OSC Coil) | Adjust for maximum output. |
| sw | Connect to test point Through ceramic | 18.8 MHz | Tuning capacitor fully open. | " | CT6 (SW OSC Trimmer) | h |
| sw | capacitor (10 pF) Negative side to test point | 5.9 MHz | Tune to signal. | п | L7 (SW ANT Coil) | л |
| sw | point y . | 18 MHz | u | п | CT4 (SW ANT Trimmer) | Adjust for maximum output. Repeat steps (6)~(9). |

[▼] Be sure to fold at the (▼) mark so that mark is on the outside.

— 4 —

SCHEMATIC DIAGRAM



MANAN

IC1

MARTIN

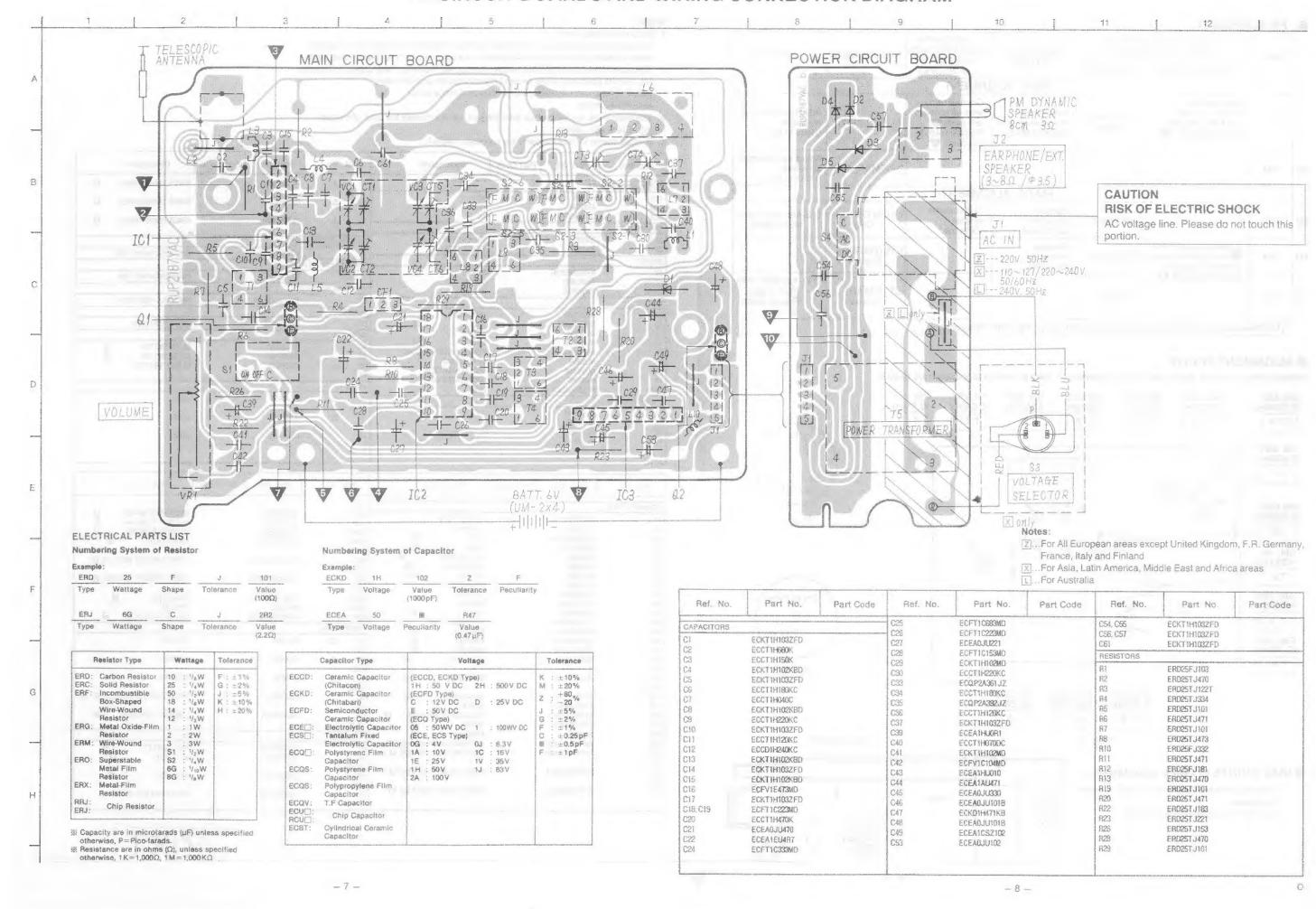
IC3

Ca Cathode

Ca Cathoo

Anode D2~5

CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM

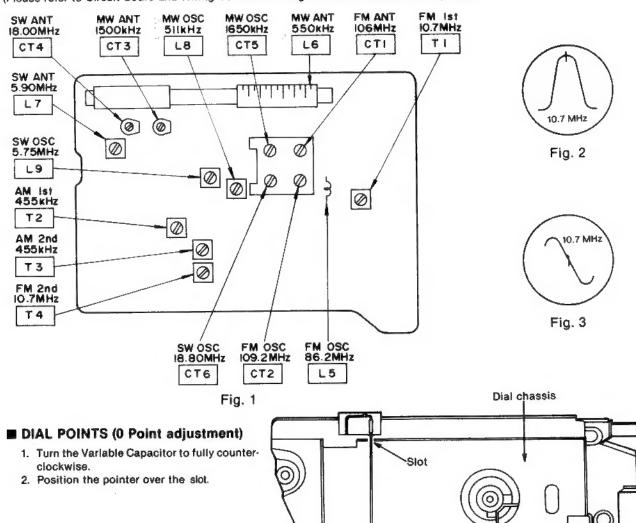


■ FM ALIGNMENT

| | BAND | SIGNAL GENERA SWEEP GENER | | RADIO DIAL SETTING | INDICATOR (ELECTRONICS VOLTMETER | ADJUSTMENT | REMARKS |
|---|------|--|--------------------|--|---|-------------------------|---|
| | | CONNECTIONS | FREQUENCY | SETTING | or SCOPE) | | |
| Г | | | | FM-IF ALIC | SNMENT | | |
| | FM | High side thru. 0.001 µF to test point , Negative side to test point . | 10.7 MHz (SWP.) | Point of non- interference. (on/ about 90 MHz) | Connect vert. amp. of scope to test point . Negative side to test point . | T1 (FM 1st IFT) | Adjust for maximum amplitude. (Refer to fig. 2). |
| | FM | n | , u | u | n | T4 (FM 2nd IFT) | Adjust for maximum amplitude. (Refer to fig. 3). |
| r | | | | FM-RF ALI | GNMENT | | |
| | FM | Connect to test point Through FM dummy antenna. Negative | 86.2 MHz | Variable capacitor fully closed. | Output meter across voice coil. | L5 (FM OSC Coil) | (*2) Adjust for maxi- mum output. |
| | FM | | 109.2 MHz | Variable capacitor fully open. | ** | CT2 (FM OSC Trimmer) | " |
| | FM | side to test point 💜 . | 106 MHz | " | ,, | CT1 (FM ANT Trimmer) | (*2) Adjust for maxi mum output. Repeat steps (3)~(6). |

ALIGNMENT POINTS

(Please refer to Circuit Board and Wiring Connection Diagram which is located test points)



REPLACEMENT PARTS LIST

1. Important safety notice

Components identified by $\boldsymbol{\Delta}$ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

- 2. The letter in the square bracket bottom the Ref. No. indicates the shipping destination.
- [Z]...For All European areas except United Kingdom and Germany
- [X]...For Asia, Latin America, Middle East and Africa areas
- [L]...For Australia
- 3. The letter in the square bracket after the part name indicates the color of the part.
 - [K]...Black, [S]...Silver
- 4. M mark stands for that the parts are supplied in MESA.

| Ref. No. | Part No. | Part Code | Description | on | Ref. I | No. | Part No. | Part Code | Description | |
|--------------------------|---|-----------|--|----|---------------------|----------|----------------------------------|-----------|---|---|
| NTEGLATED CIR | CUITS | | | | | <i>b</i> | ALTSI 2E1A | | POWER TRANSFORMER | M |
| IC1 | ANT205 ANT220A QV BA527 | | IC IC IC | | (XL) T5 & (Z) | | RLT51263A | | POWER TRANSFORMER | M |
| C3 FRANSISTORS | QV10A321 | | 10 | | T5 (X) | A | RLT512X3A | | POWER TRANSFORMER | W |
| 21 | 2SC829D | | TRANSISTOR | | VARIABLE | E CAPAC | SROTE | | | |
| 22 | 2SC945 | | TRANSISTOR | | VCI | | BCV4RC2R1A | | VARIABLE CAPACITOR | |
| DIODES | | | | | TRIMMER | CAPAC | TORS | *** | | |
| 01 | RVDRD4R3E8T RVD1SR36 | | D10DE | M | CT3, CT4 | | RCVTZ20F | | TRUMER CAPACITOR | |
| 02.03 04.05 | RVD1SR35 | | DIODE | | VARIABLE | E RESIS | TORS | | | |
| COILS | 111010100 | | | | VR1 | | EWASL2C95A14 | | VARIABLE RESISTOR | _ |
| L) | RLQY24S1 | | CHOKE COIL | | FILTERS | | | | | |
| L3 | RLQY18S3W | | COIL | M | CF1 | | RVF107WAZ | | CERAMIC FILTER | |
| 1.4 | RLD4Y44 | | COIL | | SWITCHE | 8 | | | | |
| 1.5 1.6 1.7 1.8 | RLD4Y43W RLF2W196 RLA3B41 RL02B108 | | COIL FERRITE ANTENN COIL, SW ANT OSCILLATOR COI | L | S1 S2 S3 (X) | Δ | RSS2A48Z RSS3F14Z RSR2A01Y | | SLIDE SWITCH SLIDE SWITCH ROTARY SWITCH | M |
| L9 | RL03B87 | | COIL COIL | L | JACKS | | | | | |
| L10 TRANSFORMERS | RLQZD101K | | GUIL | | JI / | Δ | RJJ1A3Y | | JACK | |
| | | | 1.57 | | {XXL} | | | | | |
| T1 T2 | RL14B153 RL12B207 | | 1.F.T | | | Δ | RJJIMIZD | | JACK | |
| T3 | R1 (2B2)7 | | 1.F.T | | (Z) | | D I IIIIAAA | | JACK | |
| T4 | RL14B153 | | 1.F.T | | J2 | | PJJ1020Y | | UNLAN | |

| Ref. No. | Part No. | Part Code | Description | n | Ref. | No. | Part No. | Part Code | Description | |
|---------------|---------------|-----------|-----------------|---------------|-----------|-------|--------------|-----------|--------------------|-----------|
| CABINET PARTS | | | | | (Z) | | | | BATTERY TERMINAL | м |
| () A | RUP2187YAC | | POWER P.C.B | | K24-1 | | R.)C20005ZA | | BATTERY TERMINAL | 12 |
| (2 | RJT866Z | | TERMINAL | | K24-2 | | RJC6000BZA | | BATTERY TERMINAL | M |
| 3 | WBB5CB-9K1K1 | | CORD | M | K24-3 | | RJC92005ZA | | NAME PLATE | M |
| Κ4 | RDD414YC | | DRUM | M | K24-4 | | RGT1250YA-0 | | NAME LIVIE | M |
| (5 | RORS4Z | | ROLLER DIAL | - M | (XL) | | | | FRONT CABINET ASS | EN INTER |
| 16 16 | RDP289Z | | POINTER (S) | | K25 | - | RYMF1630JXKS | | FRUNT GABINET ASS | ou ful ma |
| 7 7 | FIDA 104Z | | HOLDER | M M | (XXL) | | | | FOOLE CARLINET ACC | WIND TO |
| K8 | 8ZZ0303 | | DIAL ROPE | 413 | K25 | | RYMF1630JZKS | | FRONT CABINET ASS | at let M |
| 9 | RDS4860A | | SPRING | | (2) | | | | ALIANDA PERIO | |
| K10 | XTV3+10G | | SCREW | | K25-1 | | RYHF1630LZKS | | | 14 |
| K11 | RUB464ZA | | LEVER | M | K25-2 | | RKX165Z | | SPACER | - |
| (13 | XTB3+30CFN | | TAPPING SCREW | | K26 | | RZAF1630LZKS | | CHASSIS ASSY [K] | М |
| (14 | RBD439ZA-0 | | KNOB [K] | | ACCES | ORIES | | | | |
| (15 | RBD440ZA-0 | | KNOB [K] | <u> </u> | A1 | Δ | QFC10B1 | * * * | AC CORD | |
| K16 | FI80441ZA-0 | | KNOB [K] | 13 | (X) | _ | | | | |
| K17 | RKD713WA-0 | | SCALE [K] | M | At | Δ | RJA20Z | | AC CORD | |
| (Z) | UCD110MV-0 | | ounce [n] | | (Z) | | | | | |
| K17 | RKD713XA-0 | | SCALE [K] | 22 | Al | Δ | RJA26Z | | AC CORD | |
| (XXL) | INDITION V | | and the | | (XL) | _ | | | | |
| K18 | RASSP30ZA-D | | SPEAKER | ₩. | A2 | | RQX4925ZA | | OPERATING INSTRU | CTIONS I |
| K19 | XTB3+16CFZ | | SCREW | _ | (2) | | | | | |
| K20 | XEARK162EJY | | TELESCOPIC ANT | ENNA M | A2 | | RQX4948ZA | | INSTRUCTION BOOK | |
| K21 | XYNG+F25FN | | SCREW | M | (XXL) | | | | | |
| K22 | RBN704Z | | KNOB [K] | Ñ. | PACKIN | 108 | | | | |
| 1523 | RYNF18301.2KS | | BATTERY COVER | | | | RPN9548ZA | | PAD COMPLETE | D . |
| K24 | RYFF1630JXXS | | REAR CABINET A | | PI | | | | GIFT BOX | Ω |
| (X) | | | | | P2 | | RPK2464ZA | | DIFFERM | - Car |
| K24 | RYFF1630JXLK | | REAR CABINET AS | SS/Y (K) 🔛 | (XXL) | | DDV740074 | | GIFT BOX | Ø |
| (XL) | TITLE TOOLOGE | | | 1-4 | P2 | | RPKZ46BZA | | GILLON | 60 |
| K24 | RYFF1630JZKS | | REAR CABINET AS | SSYIKI IT | (Z) P3 | | XZB36X35A04 | | POLYETHYLENE CON | rea |



Fig. 4

Service Manual

FM-MW-SW 3 Band Portable Receiver

RF-1630J

- Please use this manual together with the service manual for model No. RF-1630J order No. GAD8610065C8.
- ◆This service manual indicates the main differences between; Original RF-1630J (for | Z| mark area) and RF-1630J | for F.R. Germany/| | for Italy.

| This is the Service Manual | for |
|----------------------------|-----|
| the following areas. | |

| G | For | F.R. | Germany |
|---|----------|---------|-----------|
| ~ | 1 1 1 VI | 1 41 44 | Community |

| Т | For | Italy |
|---|-----|-------|
| | | HOLLY |

■ PARTS COMPARISON TABLE

NOTES: 1. Important safety notice.

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

- The letter in the circle after the part name indicates the color of the part. [K]...Black
- 3. mark stands for that the parts are supplied from MESA.
- 4. G...For F.R. Germany, II...For Italy.

| | | Part | | |
|----------|----------------------------|-------------------------|--------------|---------------|
| Ref. No. | Description | RF-1630JZ (Original) | RF-1630JG | Remarks |
| L5 | Coil | RLD4Y43W | RL04N198 | |
| L12, 13 | Coil A | | RLQZB470K | |
| L14 | Coil | | RLQZD101K | |
| C11 | Capacitor (50 V, 39 pF) | ECCT1H120KC | ECCT1H390KC | |
| C12 | Capacitor (50 V, 22 pF) | ECCD1H240KC | ECCT1H220KC | |
| C26 | Capacitor (16 V, 0.047 μF) | ECFT1C223MD | ECFT1C473MD | |
| C27 | Capacitor (6.3 V, 470 μF) | ECEA0JU221 | ECEA0JU471 | |
| C37 | Capacitor (16 V, 0.022 μF) | ECKT1H103ZFD | ECFT1C223MD | |
| R3 | Resistor (560Ω) | ERD25TJ122T | ERD25TJ561 | |
| R14 | Resistor (1.2 kΩ) | | ERD25VJ122 | Added |
| R15 | Resistor (1.2 kΩ) | | ERD25TJ122T | Added |
| •K1 | Power P.C.B. ∆ | RUP2187YAC | RUP2187XAC | |
| KB | Dial Rope | RZZ0303 | RDZ05A | Correction |
| •K17 | Scale [K] | RKD713WA-0 | RKD713VA-0 | |
| 1404 | - 0.1: . b . b . ng | DVEETOO IZVO | RYFF1630JZGK | G only |
| K24 | Rear Cabinet Ass'y [K] | RYFF1630JZKS | RYFF1630JZIK | only |
| 1404 4 | D 00 | | RGT1250XA-0 | Gonly |
| ●K24-4 | Name Plate [K] | | RGT1250WA-0 | Only |

MEASUREMENTS AND ADJUSTMENTS

■ LW, MW and SW ALIGNMENT

☑...For All European areas except United Kingdom & Germany. ⑤...For F.R. Germany. ☑...For Italy.

| BAND | SIGNAL GENERATOR or SWEEP GENERATOR | | RADIO DIAL | INDICATOR (ELECTRONICS VOLTMETER | ADJUSTMENT | REMARKS |
|------|--|---|--------------------------------|--|--|---|
| | CONNECTIONS | FREQUENCY | SEITING | or SCOPE) | | |
| | | | MW-RF ALIGN | MENT | | |
| MW | n | 511 kHz | Tuning capacitor fully closed. | M | L8 (MW OSC Coil) | Adjust for maximum output. |
| MW | n | 1650 kHz | Tuning capacitor fully open. | я | CT5 (MW OSC Trimmer) | μ |
| MW | и | 550 kHz | Tune to signal | v | (*1) L6 (MW ANT Coil) | Adjust for maximum output. Adjust L6 by moving coil bobbin along ferrite core. |
| MW | п | 1500 kHz | и | и | CT3 (MW ANT Trimmer) | Adjust for maximum output. Repeat steps (2)~(5) |
| | MW MW | BAND SWEEP GENE CONNECTIONS MW " MW " MW " | SWEEP GENERATOR | SWEEP GENERATOR | SWEEP GENERATOR RADIO DIAL SETTING CONNECTIONS FREQUENCY FREQUENCY SETTING CONTENT CONNECTIONS FREQUENCY SETTING CONTENT CONNECTIONS FREQUENCY CONTENT CONNECTIONS FREQUENCY CONTENT CONTENT | SWEEP GENERATOR RADIO DIAL SETTING VOLTMETER OF SCOPE OF SCOPE |

RF-1630JZ



| (2) | MW | " | 516 kHz | Tuning capacitor fully closed. | n | L8 (MW OSC Coil) | Adjust for maximum output. |
|-----|----|---|----------|--------------------------------|---|--------------------------|---|
| (3) | MW | н | 1636 kHz | Tuning capacitor fully open. | n | CT5 (MW OSC Trimmer) | и |
| (4) | MW | n | 550 kHz | Tune to signal. | ø | (*1) L6 (MW ANT Coil) | Adjust for maximum output. Adjust L6 by moving coil bobbin along ferrite core. |
| (5) | MW | n | 1500 kHz | " | N | CT3 (MW ANT Trimmer) | Adjust for maximum output. Repeat steps (2)~(5). |

RF-1630J only

■ FM ALIGNMENT

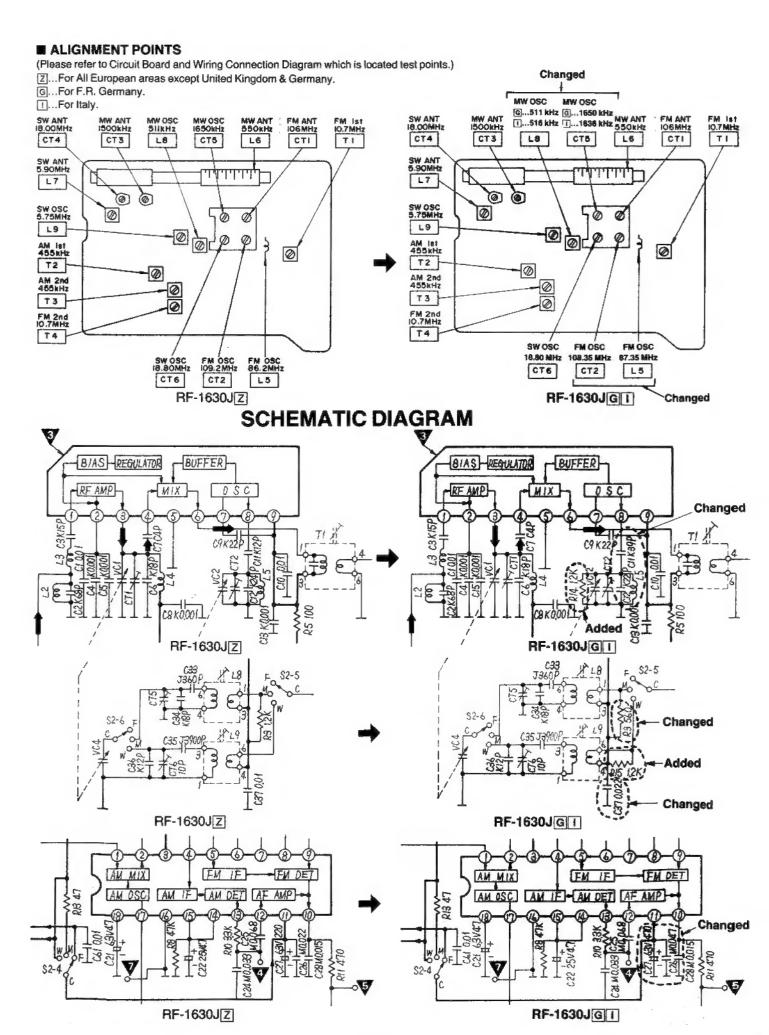
| | BAND | SIGNAL GENERATOR or SWEEP GENERATOR | | RADIO DIAL | INDICATOR (ELECTRONICS VOLTMETER | ADJUSTMENT | REMARKS |
|----|------|--|-----------|--|--|-------------------------|--|
| | | CONNECTIONS | FREQUENCY | SETTING | or SCOPE) | | |
| | | | | FM-RF ALIGNI | MENT | | |
| 3) | FM | Connect to test point Through FM dummy antenna. Negative side to test point | 86.2 MHz | Variable capacitor fully closed. | Output meter across voice coil. | L5 (FM OSC Coil) | (*2) Adjust for maximum output. |
| 4) | FM | | 109.2 MHz | Variable capacitor fully open. | W | CT2 (FM OSC Trimmer) | " |
| 5) | FM | | 106 MHz | н | tr | CT1 (FM ANT Trimmer) | (*2) Adjust for maximum output. Repeat steps (3)~(6). |

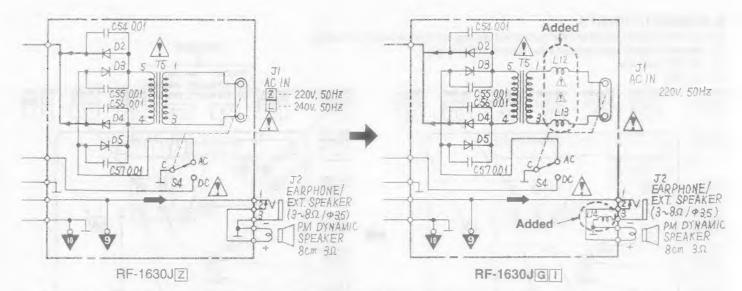
RF-1630JZ



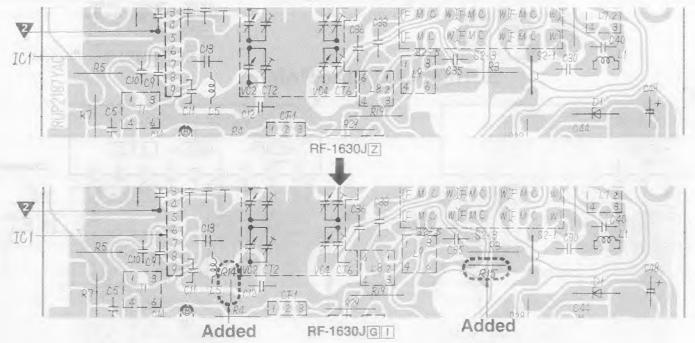
|) | FM | Connect to test point through FM dummy antenna. Negative side to test point | 87,35 MHz | Variable capacitor fully closed. | Output meter across voice coil. | L5 (FM OSC Coil) | (*2) Adjust for maximum output. |
|---|----|--|------------|----------------------------------|---------------------------------|------------------------|--|
| | FM | | 108,35 MHz | Variable capacitor fully open. | п | CT2 (FM OSC Trimmer | " |
|) | FM | | 106 MHz | н | н | CT1 (FM ANT Trimmer | (*2) Adjust for maximum output Repeat steps (3)~(6). |

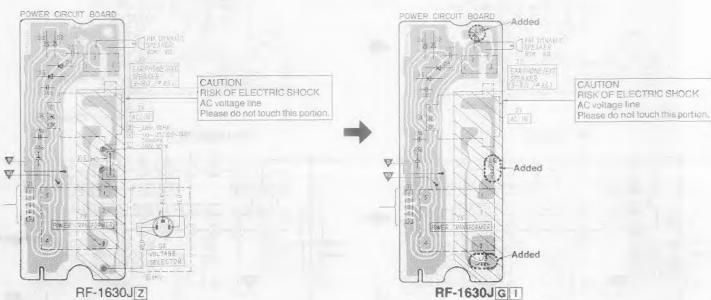
(*2) Three output responses will be present; proper tuning is the center frequency.





CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM





[Z]...For All European areas except United Kingdom & Germany.

...For Italy.

Printed in Japan (F)